Excerpts from

**Clinical Decision Support Consortium**

**Proposed Information Model for use in Knowledge Specification and in CDS Services**

**Joint Information Modeling**

**Dec 31st, 2008**

Acknowledgement:This work was supported by AHRQ contract #HHSA290200810010.

## Data Elements and Terminology Recommendations

Terminologies are either required by the HITSP CCD Implementation Guide[[1]](#footnote-1)15 or recommended by the JIM working group to represent the specified data elements of the CDS Consortium.

Table 5. Data elements and required / recommended terminologies.

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Element** | **Description** | **Strength of recommendation, Key:**  **(1) Required by HITSP and/or CCD**  **(2) Recommended by HITSP and/or CCD**  **(3) Suggested by CDSC JIMWG** | **Decision on Terminology** |
| **Problem list** | CCD provides data elements for problem date, problem type, problem name, problem code and treating provider | **1** | SNOMED CT |
| **Medication** | CCD provides a variety of data elements for prescription and non-prescription medication.  For the purpose of CDSC identified by substance and brand name.  Some terminology mapping will be required for the demonstration | **1** | RxNorm for medications (brand names and clinical drugs) [[2]](#footnote-2)16  NDF-RT for classes of medications |
| **Lab results** | Modeled as observations (included in CCD “results”) | **2** | LOINC |
| **Vital signs** | e.g. blood pressure (modeled as observations) | **1** | LOINC |
| **Allergies** | CCD provides data elements for product, reaction, severity, adverse event date and adverse event type. Currently the representation for CDSC is limited to drug allergens, no reaction and severity are included | **1** | RxNorm for medications  NDF-RT for classes of medications  (SNOMED CT may be used for reaction and severity) |
| **Demographics** | Race, gender | **1** | HL7 administrative gender code  CDC race and ethnicity vocabulary |
| **Family History** | Modeled as two data elements, problem + relationship | **3**  **2** | SNOMED CT for problems  HL7 Personal Relationship role type |
| **Social History** | e.g. smoking status (modeled as observations) | **2** | SNOMED CT |
| **Procedures** | e.g. diabetic eye exam, diabetic foot exam | **2** | SNOMED CT |

1. 15 HITSP Summary Documents Using HL7 Continuity of Care Document (CCD) Component, version 2.1, December 2007 [↑](#footnote-ref-1)
2. 16 NDC would be a possible alternative according to CCD [↑](#footnote-ref-2)